Notice of Allowability	Application No. Applicant(s)		
	10/733,327	NEUSTADTER ET AL.	
	Examiner	Art Unit	
	Thomas J. Dailey	2452	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31: 1. This communication is responsive to Amendment entered	ears on the cover sheet was (OR REMAINS) CLOSED or other appropriate community (RIGHTS). This application is and MPEP 1308.	n this application. If not included unication will be mailed in due course	
	<u> </u>		
2. The allowed claim(s) is/are <u>24-43</u> .			
 3.		or (f).	
Certified copies of the priority documents have	e been received in Applicati	on No	
Copies of the certified copies of the priority do	ocuments have been receive	ed in this national stage application fro	m the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requireme	ents
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 			OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_·		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e
Attachment(s)	5 	6 ID (14 E E E	
1. Notice of References Cited (PTO-892)		nformal Patent Application	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper No	summary (PTO-413), /Mail Date <u>201000615</u> . s Amendment/Comment	
Paper No./Mail Date			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowance	
/TD/		—· M/	
/TD/ Patent Examiner, Art Unit 2452	/THU NGUYE Supervisory Pa	N/ Itent Examiner, Art Unit 2452	

Art Unit: 2452

DETAILED ACTION

1. Claims 24-43 were added by the amendment filed on 3/30/2010.

2. Claims 1, 2, 4-10, and 12-23 were cancelled by the amendment.

3. Claims 24-43 are pending.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Victoria Donnelly on June 15, 2010. The amendment amends method claim 32 to have a similar scope to that of the other independent claims.

The application, specifically claim 32, has been amended as follows:

32. (Currently amended) A method of verifying continuity of paths in a wavekey network comprising a plurality of nodes interconnected through a plurality of multi-channel links, each node having a node controller, the method comprising:

providing a link interface for each multi-channel link among said plurality of multi-channel links;

sending optical signals occupying channels of different wavelength bands
of said each multi-channel link, said optical signals comprising control signals
occupying a control channel and data signals occupying data channels of said
each multi-channel link;

sending, over each data channel of said each multi-channel link, data of a respective connection originating from an access port of a source node and terminating at an access port of a destination node;

modulating said each data channel by a respective wavekey of at least one dither tone;

distributing, by said node controller, nodal information to each other node, said nodal information comprising:

an identifier of a respective connection traversing each data channel of each link emanating from said each node;

an identifier of a central wavelength of said each data channel; and an identifier of a current wavekey modulating said central wavelength;

and

communicating to a network controller, from a gateway node selected from among said plurality of nodes, nodal information pertinent to said each node to enable said network controller to determine continuity of said respective connection.

Art Unit: 2452

Allowable Subject Matter

6. Claims 24-43 are allowed.

7. The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or suggest all limitations of the claimed invention with particular emphasis a plurality of links, each link connecting inter-nodal interfaces of a respective node pair and supporting optical signals occupying channels of different wavelength bands, said channels comprising: a control channel carrying control signals; and data channels, each data channel carrying data of a respective connection from an access port of a source node to an access port of a destination node, said each data channel further modulated by a respective wavekey of at least one dither tone.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Art Unit: 2452

(a) US Pub. No. 2003/0058496- "Topology discovery in optical WDM networks"

- (b) US Pat. 6,707,795 "Alarm correlation method and system"
- (c) US Pat. 7,469,102 "Wavelength-division-multiplexing passive optical network utilizing fiber fault detectors and/or wavelength tracking components"
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am 5:00pm.
- 11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2452

12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. J. D./ Examiner, Art Unit 2452

/THU NGUYEN/ Supervisory Patent Examiner, Art Unit 2452